

## **ABSTRACT**

In order for a load cell with a force transducer for recording a weight, the force transducer having a part which does not deform under loading and a force introduction part with an elastically deformable part, the elastically deformable part and the non-deforming part having in a measuring portion a defined spacing in relation to each other which changes under loading, with a sensor arrangement with an inductively operating sensor element, which is disposed in the measuring portion opposite a signaling face, in order to detect changing of the spacing as an electric signal, and with a circuit for converting the electric signal into a weighing signal, to be developed further in such a way that it can be used in particular in conditions which are very difficult in terms of measuring technology, and in particular under the other special ambient conditions within a vehicle, and the weighing signal of which is substantially uninfluenced by this, it is proposed that the force transducer has a recess in the elastically deformable part or the non-deforming part in the region of the measuring portion lying opposite the signaling face and in that the sensor element is disposed in the recess in such a way that it is aligned toward the signaling face and is encapsulated.